

PTO/SB/08a/b (07-05)
Approved for use through 09/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete If Known Substitute for form 1449A/B/PTO Application Number 10/606,202-Conf. #4373 INFORMATION DISCLOSURE Filing Date June 24, 2003 STATEMENT BY APPLICANT Andrew D. Firlik First Named Inventor 3762 Art Unit (Use as many sheets as necessary) A. Alter Examiner Name 1 Attorney Docket Number 337348046US Sheet of

			U.S. PA	TENT DOCUMENTS			
Examiner Cite Document Number Publication Date Name of Patentee or Relevant Passages or R							
Initials*	No.1	Number-Kind Code ² (If known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear		
A		US-2004-0088024	5/6/2004	Firlik et al.			
1		US-2004-0131998	7/8/2004	Marom et al.			
		US-2005-0182453	8/18/2005	Whitehurst			
		US-2005-0021104	1/27/2005	DiLorenzo			
		US-2006-0106430	5/18/2006	Fowler et al.			
		US-2006-0106431	5/18/2006	Wyler et al.			
		US-2006-0129205	6/15/2006	Boveja et al.	•		
		US-2006-0173522	8/3/2006	Osorio			
		US-2006-0217782	9/28/2006	Boveja et al.			
		US-3918461	11/11/1975	Cooper			
		US-4328813	5/11/1982	Ray			
		US-4340038	7/20/1982	McKean			
		US-4702254	10/27/1987	Zabara			
		US-5464446	11/7/1995	Dreessen et al.			
		US-5611350	3/18/1997	John			
		US-5750376	5/12/1998	Weiss et al.			
		US-5865842	2/2/1999	Knuth et al.			
		US-5916171	6/29/1999	Mayevsky			
		US-6040180	3/21/2000	Johe	· · · · · · · · · · · · · · · · · · ·		
		US-6057846	5/2/2000	Sever, Jr.			
		US-6095148	08/01/2000	Shastri et al.			
		US-6176242	1/23/2001	Rise			
		US-6190893	2/20/2001	Shastri et al.			
		US-6210417	4/3/2001	Baudino et al.			
		US-6246912	6/12/2001	Sluijter et al.			
		US-6319241	11/20/2001	King et al.			
		US-6356792	3/12/1992	Errico et al.			
		US-6456886	9/24/2002	Howard, III et al.			
	İ	US-6529774	3/4/2003	Greene			
		US-6569654	05/27/2003	Shastri et al.			
		US-6684105	1/27/2004	Cohen et al.			
		US-6708064	3/16/2004	Rezai			
		US-6788975	9/7/2004	Whitehurst et al.			
		US-6944501	9/13/2005	Pless			
		US-7006859	2/28/2006	Osorlo et al.			
40	1	US-7110820	9/19/2006	Tcheng et al.			

Examiner Signature	Celegosa	alto	Date Considered	4/11	R
					1

PTO/SB/08a/b (07-06)

Approved for use through 09/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

Sub	stitute for form 1449A/B/PT	0		Complete if Known		
				Application Number	10/606,202-Conf. #4373	
II.	IFORMATION	I DI	SCLOSURE	Filing Date	June 24, 2003	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	Andrew D. Firlik	
				Art Unit	3762	
l .	(Use as many sh	eets as	necessary)	Examiner Name	A. Alter	
Sheet	2	of	4	Attorney Docket Number	337348046US	

	FOREIGN PATENT DOCUMENTS									
Examiner Inilials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁶ (Il known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicants unique citation designation number (options). See Kinds Codes of USPTO Patent Documents at https://www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. If Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
#		BARRES et al., "Proliferation of oligodendrocyte precursor cells depends on electrical activity in axons," Nature; Medical Research Council Developmental Neurobiology Programme, Department of Biology, University College, London, p. 258-260, (January 21, 1993).	
		BEZARD et al., "Cortical Stimulation and Epileptic Seizure: A Study of the Potential Risk in Primates," Neurosurgery, Vol. 45, No. 2, August 1999, 346-350.	
		BURY, Scott et al., "The Effects of Behavloral Demand on Motor Cortical and Cerebellar Structural Plasticity After Brain Injury in Adult Rats," http://www.mcmaster.ca-inabis98-schallert-bury0827-two.htm#introduction, 2 pages [Retrieved on March 1, 2003].	
		CHEUN et al., "Differentiation of a Stem Cell Line Toward a Neuronal Phenotype," Int. J. Devl. Neuroscience, Vol. 9, No. 4, pp. 391-404 (1991).	
		CICINELLI et al., "Transcranial magnetic stimulation reveals an interhemispheric asymmetry of cortical Inhibition in focal epilepsy," Neurophysiology, Vol. 11, No. 4 March 20, 2000, pages 701-707.	
		CINCOTTA et al., "Suprathreshold 0.3 Hz repetitive TMS prolongs the cortical silent period: potential implications for therapeutic trials in epilepsy," Clinical Neurophysiology, Volume 114, 2003, Pages 1827-1833, Elsevier Ireland Ltd.	
		CRAMER et al., "Use of Functional MRI to Guide Decisions In a clinical Stroke Trial," Stroke, Journal of the American Heart Association, May 2005, pages e50-e52, American Heart Association, Dallas TX.	
		FERRARI, A. et al., "Immature human NT2 cells grafted into mouse brain differentiate into neuronal and glial cell types," FEBS Letters, Dec. 8, 2000, Pages 121-125, Volume 486, No. 2, Elsevier Science B.V., Amsterdam.	
		FREGNI et al., "Antieplieptic Effects of Repetitive Transcranial Magnetic Stimulation in Patients with Cortical Malformations: An EEG and Clinical Study," ASSFN Proceedings 2004, Stereotactic and Functional Neurosurgery, 2005, 83:57-62.	
		HAGLUND, Michael M. et al., "Optical imaging of epileptiform and functional activity in human cerebral cortex," Nature, August 20, 1992, pages 668-671, Vol. 358, Nature Publishing Group.	
		ISHIBASHI, Tomoko et al., "Astrocytes Promote Myelination in Response to Electrical Impulses," Neuron 49, pp. 823-832, (March 16, 2006).	
		KELLY-SPRATT, K. "Transfection of PC-12 cells: a model system for primary neuronal cells," Qiagen News, Customer application article, www.qiagen.com, Issue 4, 1998, 2 pages.	
14		KEYVANI, Kathy et al., "Suppression of proteasome C2 contralateral to ischemic lesions in rat brain," Brain Research, Vol. 858, pp. 386-392, 2000.	

Examiner	Q ₀) Ar	Date	4111	1707-
Signature	ale	100	100	Considered	!	O_{V}

PTO/SB/08a/b (07-06)

Approved for use through 09/30/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1895, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sub	stitute for form 1449A/B/PT	·o		Complete If Known		
				Application Number	10/606,202-Conf. #4373	
11	IFORMATION	1 DI	SCLOSURE	Filing Date	June 24, 2003	
S	TATEMENT I	BY A	APPLICANT	First Named Inventor	Andrew D. Firlik	
				Art Unit	3762	
	(Use as many sheets as necessary)			Examiner Name	A. Alter	
Sheet	3	of	4	Attorney Docket Number	337348046US	

	KIMURA, K. et al., "Electrically induced neurite outgrowth of PC12 cells on the electrode surface," Entrez PubMed.
I AA	http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=Abstract, 1
	page.
	KINOSHITA et al., "Electric cortical stimulation suppresses epileptic and background activities
	in neocortical epilepsy and mesial temporal lobe epilepsy," Clinical Neurophysiology, Volume
	116, 2005, pages 1291-1299, Elsevier Ireland Ltd.
1 1 1	KOSSOFF et ai., "Effect of an External Responsive Neurostimulator on Seizures and
1 1 1	Electrographic Discharges during Subdural Electrode Monitoring," Epilepsia 45(12):1560-
	1567, 2004, Biackwell Publishing, Inc.
	LUTSEP et al., "Safety of Cortical Stimulation in Patients with Hemiparetic Stroke," Oasis,
1 / 1	Online Abstract Submission and Invitation System - Program Planner, International Stroke Conference 2005, 1 pages, American Stroke Association.
	MISAWA et al., "Low-frequency transcranial magnetic stimulation for epilepsia partialis
111	continua due to cortical dysplasia," Journal of the Neurological Sciences, Volume 234, 2005,
1	Pages 37-39.
\Box	MOTAMEDI et al., "Optimizing Parameters for Terminating Cortical Afterdischarges with Pulse
	Stimulation," Epilepsia 43(8):836-846, 2002, Blackwell Publishing, Inc.
	NUDO, Randolph J. et al., "Recovery after damage to motor cortical areas," Current Opinion in
	Neurobiology, Vol. 9, Issue 6, pp. 740-747, December 1, 1999.
	PRICE, J. et al., "Neurotransplantation in neurodegenerative disease: a survey of relevant
	Issues in developmental neurobiology," Novartis Foundation Symposium 231, 2000, Pages
igwdown	148-165, Wiley, Chichester, UK.
1	ROBINSON, Kenneth R., "The Responses of Cells to Electrical Fields: A Review," The Journal
-	of Cell Biology, Voi. 101, pages 2023-2027 (December 1985).
	SIOUTOS et al. "Continuous Regional Cerebral Cortical Blood Flow Monitoring in Head- injured Patients, Neurosurgery, Vol. 36, No. 5, May 1995, pages 943-949.
 - 	The National Institutes of Health (NIH) Consensus Development Program, "Surgery for
1 /	Epilepsy," National Institutes of Health Consensus Development conference Statement, March
1 /	19-21, 1990, 16 pages.
	VELASCO et al. "Absolute and Relative Predictor Values of Some Non-Invasive and Invasive
	Studies for the Outcome of Anterior Temporal Lobectormy," Science Direct, Volume 31, Issue
	1, January-February 2000, pages 62-74, Elsevier Science, Inc.
	VELASCO et al., "Acute and Chronic Electrical Stimulation of the Centromedian Thalamic
	Nucleus: Modulation of Reticulo-Cortical Systems and Predictor Factors for Generalized
[]	Seizure Control," Archives of Medical Research, Volume 31, 2000, Pages 304-315, Elsevier
$H \longrightarrow$	Science, Inc.
	VELASCO et al., "Electrical Stimulation for Epilepsy: Stimulation of Hippocampal Foci,"
\vdash	Stereotactic and Functional Neurosurgery, Vol. 77, 2001, Pages 223-227. VELASCO et al., "Subacute and Chronic Electrical Stimulation of the Hippocampus on
	Intractable Temporal Lobe Seizures: Preliminary Report," Archives of Medical Research,
	Volume 31, 2000, Pages 316-328, Elsevier Science, Inc.
	VELASCO et al., "Subacute Electrical Stimulation of the Hippocampus Blocks intractable
	Temporal Lobe Seizures and Paroxysmal EEG Activities," Epilepsia, Volume 41, No. 2, 2000,
	Pages 158-169, Lippincott Williams & Wilkins, Philadelphia.
	WAXMAN et al., "The Interictal Behavior Syndrome of Temporal Lobe Epilepsy," Arch Gen
	Psychiatry, Volume 32, Dec. 1975, Pages 1580-1586.
NA.	WEINAND et al., "Cerebral blood flow and temporal lobe epileptogenicity," J Neurosurg, Vol.
	86, February 1997, pages 226-232.

Examiner Signature Ollym	Outro	Date Considered	4/11	07
——————————————————————————————————————				

PTO/SB/08a/b (07-05)
Approved for use through 09/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Sub	Substitute for form 1449A/B/PTO			Complete If Known		
		•		Application Number	10/606,202-Conf. #4373	
IN	IFORMATION	I DI	SCLOSURE	Filing Date	June 24, 2003	
S	TATEMENT B	3Y /	APPLICANT	First Named Inventor	Andrew D. Firlik	
				Art Unit	3762	
	(Use as many sheets as necessary)			Examiner Name	A. Alter	
Sheet	4	of	4	Altomey Docket Number	337348046US	

AA	WEINAND et al., "Cerebral blood flow and temporal lobe epileptogenicity," Neurosurgical Focus, November 1996, Volume 1, Number 5, AANS.ORG,	
1	http://www.aans.org/education/journal/neurosurgical/nov96/1-5-3.asp, 17 pages. WEINAND et al., "Long-term ictal monitoring with subdural strip electrodes: prognostic factors for selecting temporal lobectomy candidates, J Neurosurg, Volume 77, 1992, Pages 20-28.	
	WEINAND et al., "Surface cortical cerebral blood flow monitoring and single photon emission computed tomography: prognostic factors for selecting temportal lobectormy candidates," Seizure, Vol. 3, 1994, Pages 55-59.	
	WEINAND et al., "Targeted Subthreshold Cortical Stimulation for Recovery of Motor Hand Function following Hemiparetic Stroke," Abstract: 2005 April 18, AANS.org, http://www.aans.org/Library/Article.aspx?ArticleId=24934, 2 pages.	
	WOODBURY, D. et al., "Adult Rat and Human Bone Marrow Stromal Cells Differentiate Into Neurons," Journal of Neuroscience Research, 2000, Volume 61, Pages 364-370, Wiley Interscience, New York, NY.	
AA	YAMAMOTO et al., "Low-frequency Electric Cortical Stimulation Has an Inhibitory Effect on Epileptic Focus In Mesial Temporal Lobe Epilepsy," Epilepsia, Volume 43, No. 5, 2002, Pages 291-295, Blackwell Publishing, Inc.	,

^{&#}x27;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	alym	alst	Date Considered	4/11/07

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.